**TECHNICAL DOCUMENTATION**

About the application? (What is the application is all about)

Why are we doing? (Purpose)

How can we do?

Information about the application:

Developing a application which can be used for creating a terraform code depend upon the requirement of the development/testing team.

Why are we doing?

By this application it will be helpful to create the script easily and more work can be finished within less time. This application will also help the non devOps engineer to create the terraform script which ultimately result in doing more number of script as and when required.

How can we do?

* Resources Block: -
* There will be a heading with name **Resources**
* Below the resource block we will add the resources name for which we need to create the script.
* Initially for version 1.0 we will be adding resource S3, Lambda Function, IAM role, cloud watch, API gateway
* To the right side of the resources, we will be adding the plus button (+).
* After clicking the plus button, the resource will add to the right-side block, we can add multiple number of resources at the same time.
* We will be creating such a function, when we click the plus button, for suppose we clicked on the (+) button beside the S3 it will ask for the name and region. (For version 1.0 we will not make the name and region field as the required one)

* Data Resources: -
* There will be a heading with name **Data Resources** (at left bottom)
* Below the data resource block we will add the resources arn for which we need to create the script.
* Initially for version 1.0 we will be adding resource arn of S3, Lambda Function, IAM role, cloud watch, API gateway
* To the right side of the resources, we will be adding the plus button (+).
* After clicking the plus button, the resource arn will add to the right-side block, we can add multiple number of resources arn at the same time.
* We will be creating such a function, when we click the plus button, for suppose we clicked on the (+) button beside the S3 it will ask for the name and region. (For version 1.0 we will not make the name and region field as the required one)

1. Resources Details: -

* We will be creating a block with the name of the **Resources Details.** (At the right side of the page).
* Below this we will have two fields for entering the project name which will be required field and a Git repo. field which will be optional field.
* When we click on the plus buttons which is placed beside the resource and resource arn , it will display the resource and resource arn respectively below the Project name and it will ask for resource name and the resource region.
* For the version 1.0 we will not make the name and region field as required.
* If we do not mention the name in the name field it will take the name same as project name.
* At the bottom we will be adding the save and submit button.
* One may think that why the save button is needed as we have submit button which can do the same work. The intention of adding the save button is that, in some case if don’t know which resources to add exactly we can just save some of those which we know and confirm from the team and then add or edit the resources accordingly.
* After clicking the **submit** button it will try to access the module present in the git repo.
* From which it will generate a terraform script.

1. Git Repository (DevOps Engineer repo.): -

* We will be creating a git repo., in which there will be number of modules, in each module we will have a terraform script of different resources.
* When we click the submit button which is present on the Resources details page, It will pass the resources details (name, region etc.) to the git repository and by comparing with the modules it will create a script.
* Once the script is created, we push the script to git repo. given by them/ we can save the script in our git repo. and give the git url to the respective team.